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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,180	08/31/2004	Pei-Ching Kuo	LITP0047USA	5179
	7590 12/26/2006 RICA INTELLECTUA	EXAMINER		
P.O. BOX 506		· EDUN, MOHAMMAD N		
MERRIFIELD, VA 22116		ART UNIT	PAPER NUMBER	
			2627	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	3 MONTHS 12/26/2006 PAPER		ER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/711,180	KUO ET AL.			
		Examiner	Art Unit			
		MUHAMMAD N. EDUN	2627			
Period f	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with	the correspondence address			
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Status						
1)	Responsive to communication(s) filed on					
2a)□		s action is non-final.	·			
3)[_					
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposit	ion of Claims					
4)🛛	Claim(s) 1-6 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)🖂	Claim(s) <u>1-4</u> is/are allowed.					
6)⊠	Claim(s) 5 is/are rejected.					
7)🖂	Claim(s) 6 is/are objected to.					
8)[Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examin-	er.				
	The drawing(s) filed on is/are: a) acc		the Examiner.			
	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the E	xaminer. Note the attached C	Office Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
	1. Certified copies of the priority documen	ts have been received.				
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the price	•	ceived in this National Stage			
	application from the International Burea					
* (See the attached detailed Office action for a lis	t of the certified copies not re	ceived.			
Attachmer	• •					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		nmary (PTO-413)			
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)		Mail Date rmal Patent Application			
	er No(s)/Mail Date	6) 🔲 Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Holmes et al. (US 2003/0067703) in view of common knowledge in the art.

Holmes et al. discloses the invention substantially as claimed, however does not specifically show the sensor chip being used in an optical disk drive. Note Holmes et al. shows several different types of shock sensors in Figs. 3-16 being in the form of chip. For example Fig. 4 shows shock sensor (400) being in the form of a chip that can be easily fixed to a printed circuit board (see section [0046], as set forth in claim 5.

Its is well known in the art to use elements having a specific purpose to be used in various types of device. For example detecting shock in an any form recording or reproducing device, which include optical or magnetic recording and reproducing devices etc., is well know in order to reduce recording or reproducing errors.

It would have been obvious for one of ordinary skill in the art at the time the invention was made to use the shock sensor of Holmes et al. in an optical disk drive, in order to reducing recording and reproducing error in the optical disk apparatus.

Allowable Subject Matter

Claims 1-4 are allowed.

Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record alone or in combination does not teach or suggest the device capable of detecting vibration and shock having combination of elements with their recited structure, along with having: the laser diode and the vibration/shock detector formed on one chip, as set forth in claims 1 and 2; and the photo detector and the vibration/shock detector formed on one chip, as set forth in claims 3 and 4.

Further the prior art does not teach the pick-up head of claim 5 having the recited combination of elements with their recited structure, along with having the further limitations as set forth in claim 6.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Zook et al. (6,246,638) and Carlson et al. (5,923,487), both discloses an apparatus having an integrated shock sensing device.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to MUHAMMAD N. EDUN whose telephone number is 571-272-7617. The examiner can normally be reached on FLEXITIME.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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